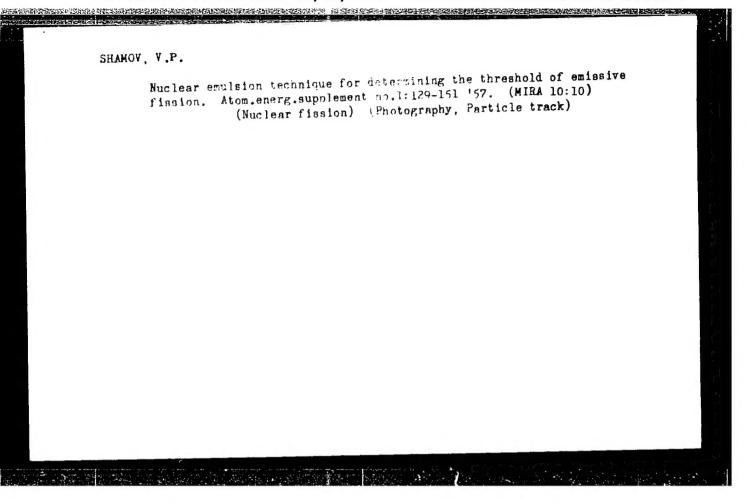


SHAMOV, V. P., IVANOVA, N. S. and PERFILOV, N. A.

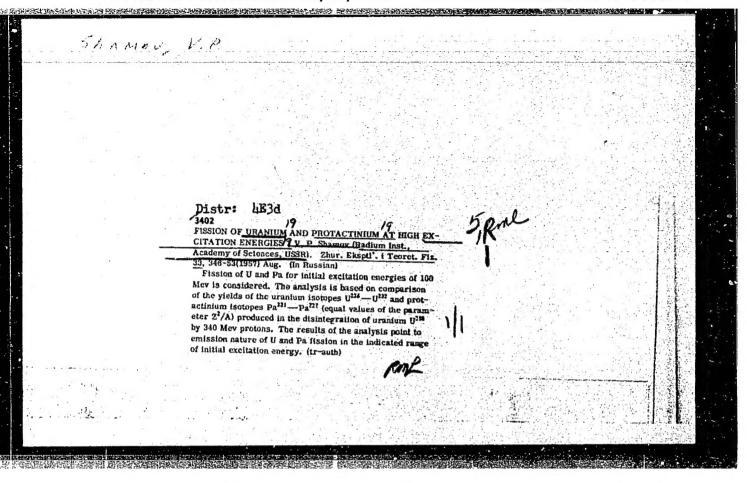
"Exposition of the Results of Investigation of Fission by the Method of Photoemulsions in Perfilov's Laboratory in the Leningrad Radium Institute", a report presented at the Conference on the Physics of Nuclear Fission, 19-21 January 1956, Atom Energ., No. 1, 1956.



SHAMOV, V.P.

"The Use of Heavy Photographic Emulsions to Determine Emitting Fission Thersholds", Atomnaya Energiya, Vol 2, No I, Jan 57, p IOC.

SUM. 1322



AUTHOR

PERFILOY W.A., SHAMOV V.P., LOZHKIN

PA - 2651

TITLE

The triple fission of uranium by fast particles.

PERIODICAL

(Troynoye deleniye urana na bystrykh chastitsakh. - Russian)

Doklady Akademii Nauk SSSR 1957, Vol 113, Nr 1, pp 75 - 77

(USSR).

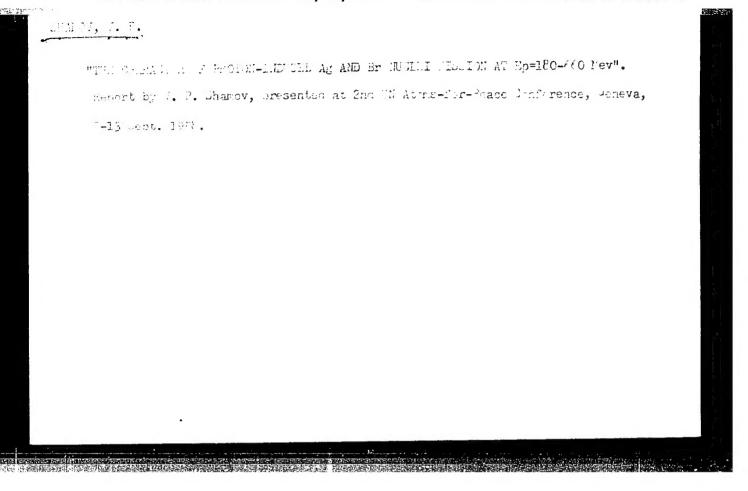
Received: 5/1957

Reviewed: 6/1957

ABSTRACT

Experimental Data: Plates saturated with uranium were irradiated by 660 -protons. On examination of the plates several fissions of the uranium were registered where multiple-charge particles were radiated with Z > 4. Among these particles a plane threefold fork was found. The traces of all three particles of this fork belong to multiple-charge particles: two belong to fission fragments of a heavy nucleus and the third possesses a much stronger darkening density than the traces of α -particles. The authors used a specially fine-grained emulsion with the limit of sensitivity of ~ 35 MeV for protons. The blackening density along these three traces was measured photometrically. The results found for total blackening are shown in form of a diagram and compared with the blackening of the traces of nitrogen ions. The nuclear charge number can be determined from the angle of inclination of the blackening curve. For one of the particles the value of $Z_{III} = 9.8 \pm 1.$ was

CARD 1/2



21 (7) AUTHOR	Shamov, V. P.		sov/56-35-2-2/60
TITLE		Silver Nuiler by Protons or serebra protonami bolish	
PERIODICAL		imental noy i teoretichesk pp 316-321 (USSR)	oy fiziki 1958,
ABSTRACT.	several times in the case of that gave rise used the nucleosensitivity of intensive protowas carried ou institut yader Ruclear Resear d [cm]	rocesses have already been in the case of heavy and landle of medium weight. To the present work for ar emulsion " -9 sensition 45 MeV which had been is on beam of different energy to on the synchrocyclotron myth issledovania results. E MeV Measuring results.	ight nuclei but not It was this fact which the author ve" with a proton rradiated with an y (Irradiation of the Ob"yedinennyy
0 1 6 '0	0 = C	660 500	3 5.10 2.7 10 ⁻²⁸
Card 1/2	•	744	2, 1, 0

The Places of Silver Nuclea by Fictions of High Energy : [...]

SOV/56 35-2 3/60 In [MeV] or (agir (om)) 3.3 to ²⁸

(d = thickness of the copper filter E_p^t = proton energy behind the filter. $\sigma_f = fission cross section)$

The other chapters deal with the final nuclei in dependence on the charge and the interaction process (spallation castade evaporation) The fission of silver nuclei leads to the formation of fragments of equal mass as well as to the emission of a large number of charged particles. In conclusion the author thanks Professor N A Perfilov as well as 0 V Lozhkin, V I. Ostroumov, and V F. Darovskikh for their advice and cooperation. There are 2 figures 3 tables, and 5 references 4 of which are Soviet

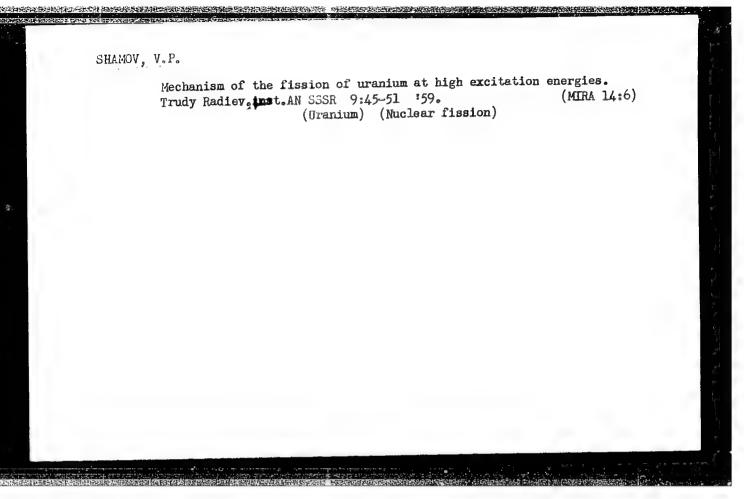
ASSOCIATION . Radiyavyy institut Akademii nauk SSSR (Radium Institute,

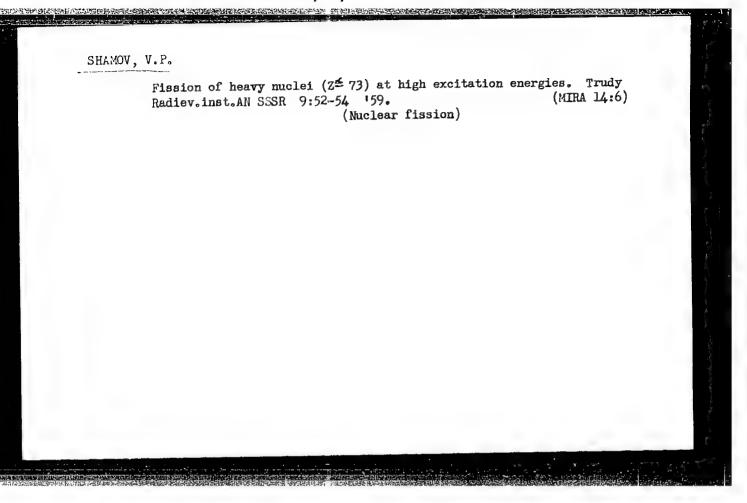
AS USSR)

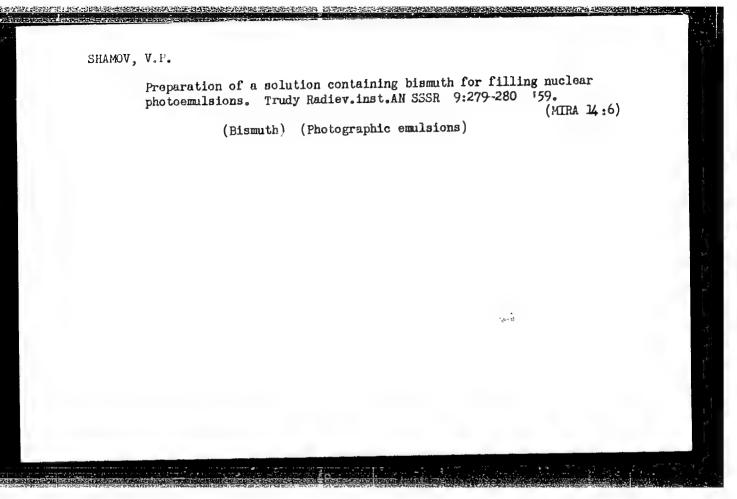
SUBMITTED

February 18, 1958

Card 2/2







S/194/31/000/005/010/078 D201/D303

12 2200

Gorin, A.V., Grosman, V.A., Drapchinskiy, L.V., Rayevskiy, B.N., Rememov, L.P., Storozhenko, E.P., Fedorov, Yu.P., Shavrin, G.R. and Shamov, V.P.. AUTHORS:

TITLE:

A mobile radiometric emergency laboratory using

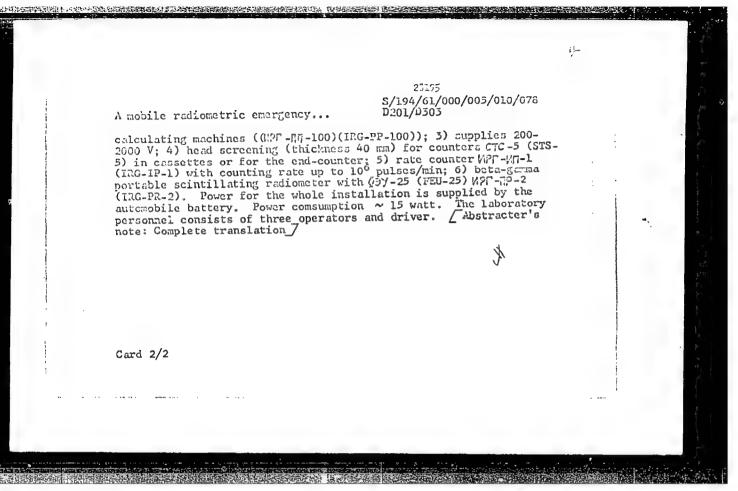
semiconductor devices

Referativnyy zhurnal. Avtomatika i radioslektronika, no. 5, 1961, 31-32, abstract 5 A235 (Dokl. neuchn. konferentsii in-ta radiats. gigiyeny po itogen rab-PERIODICAL:

oty za 1959, g., L., 1960, 18-19)

TEXT: A description is given of a complete mobile laboratory, mounted on the automobile Y/G -450 A (UAZ-450 A) and which is to be mounted on the automobile Y/G -450 A (UAZ-450 A) and which is to be used for detecting radioactive isotope contamination of certain areas or of separate objects. The laboratory equipment concists of the following: 1) automatic recorder of the level of Y-back-of the following: 1) automatic recorder of the level of Y-back-of the following: 1) microcurie/hr (WPT-FIFC-5)(IRG-PGS-5)); 2) 2 ground from 10 to 105 microcurie/hr (WPT-FIFC-5)(IRG-PGS-5)); 2)

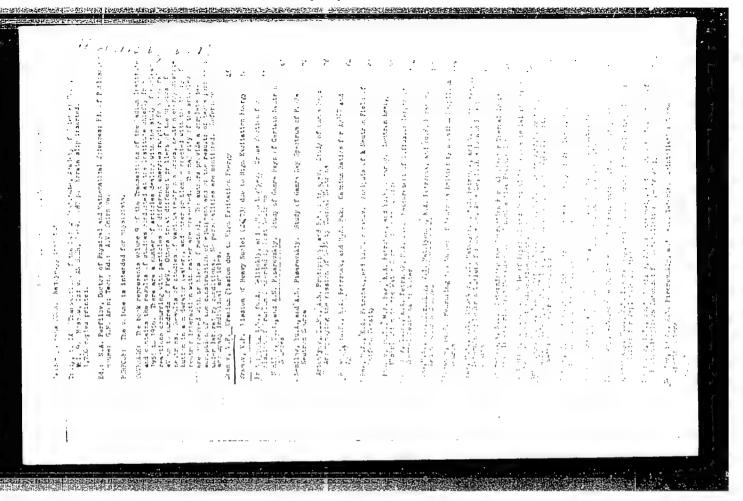
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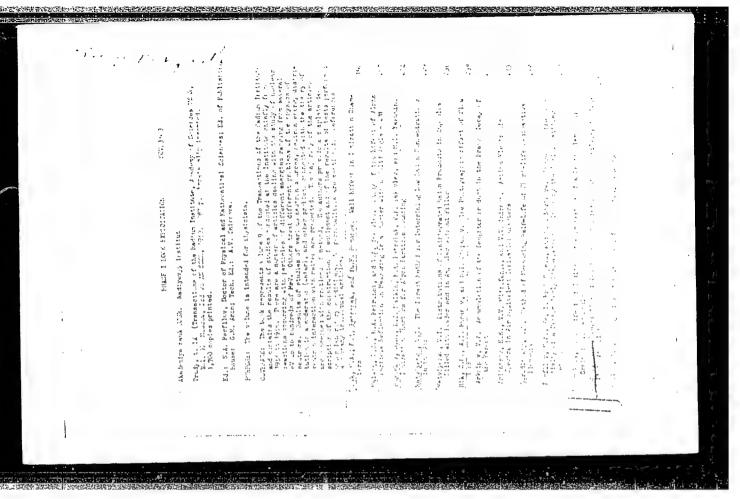


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AUTHORS:

S/120/60/000/005/013/051

E192/E382

Rayevskiy, B.N., Romanov, L.R. and Shamov, V.P.

TITLE: A Counting Decade Based on Transistors

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No. 5, pp. 62 - 64

TEXT: A detailed circuit diagram of the device is shown in Fig. 1. The decade consist of four bistable circuits and a diode reset key. The bistable circuits are based on transistors type The (Pl4). The circuits are reset to zero by momentarily applying the supply voltage to the collector of the lefthand-side transistor via a diode. Unlike in the standard decade circuits, a direct feedback is provided from the output of the bistable circuit T1 to the input of the

circuit T_{ij} and by providing a diode key between T_{ij} and T_{ij} . The decade operates as follows. Normally, all the bistable circuits are in their rest position, which is characterised by the lefthand-side transistor being closed and the righthand-side transistor conducting. A voltage of

Card 1/3

85345 S/120/60/000/005/013/051 E192/E382

A Counting Decade Based on Transistors -10 V is applied to the key diode from the collector of the lefthand-side transistor of T_4 . The divider R_{10} and R_{11} keeps the anode potential of this diode at -8V; consequently, the diode is conducting. Thus, the key transmits positive pulses to the input of T_2 . The pulses appearing at the second input of $T_{\frac{1}{4}}$ cannot operate it since its righthand. side transistor is open. The eighth pulse triggers T_4 so that its lefthand-side transistor becomes conducting and the righthand-side transistor is closed. The voltage at the key diode will thus be increased to ~ 1.5 V and the key becomes nonconducting to positive pulses. The ninth pulse changes the state of T_1 , while the tenth pulse returns T_1 to their rest position. The decade now produces a positive output pulse and returns it to its original state. The resolving time of the decade is 7 µs and the power consumed by it is 0.15 W. The decade was constructed as a plug-in unit €ard 2/3

85345

S/120/60/000/005/013/051 E192/E382

A Counting Decade Based on Transistors

and its photograph is shown in Fig. 2.
There are 2 figures and 5 references: 3 Soviet and 2 English.

ASSOCIATION:

Institut radiatsionnoy gigiyeny (Institute of Radiation Hygiene)

SUBMITTED:

September 17, 1959

Card 3/3

9.2520 (1154 ONLY) 9.4141

S/120/60/000/006/015/045 E041/E335

9,4140 AUTHORS:

Bezmenov, O.M., Lebedev, O.V. and Shamov, V.P.

TITLE:

Wide-band Transistor Preamplifier

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No. 6, pp. 56 - 57

TEXT: The circuit of Fig. 1 is to match the high output resistance of the photomultiplier of a scintillation gamma-ray spectrometer with the low characteristic impedance of a coaxial cable. The great attraction of the transistor circuit is its freedom from microphony. The two transistors Π_3 and Π_4 form an emitter follower analogous to the White circuit, well known for tubes. The base current of the lower transistor, whose high AC resistance constitutes the emitter load of the upper transistor, is stabilized by the silicon stabilistor Π_5 . The transistors are alloy-diffusion types Π_5 (P-402) or Π_5 (P-403). The load on the amplifier is a 150 ohm resistor connected by 20 m of coaxial Card 1/4

S/120/60/000/006/015.'045 E041/E335

Wide-band Transistor Preamplifier

cable. The overall gain, including the cable, is 0.92. The input resistance of the amplifier is 250 k.R. in parallel with 16 pF. The output resistance of the amplifier is 8.6 Ω . The circuit will handle without distortion pulses between +0.4 and -3.5 V, at temperatures up to +70 °C. The rise time does not exceed 2 x 10^{-8} sec with a very small overshoot. Fig. 3 shows the effect on the rise time of the output signal $(\tau_0$. 10^{-8} µs) on the capacitance $(C_{H^3}$ µµF) connected in parallel with the load resistor (150 ohm); the rise time of the input signal is 3.8×10^{-8} sec. To obtain the best results the transistors are carefully selected. Π_1 and Π_2 should have high β , π_3 can have an average β while π_4 is not critical. The diode \(\simeq -810\) (D-810) can be changed

Card 2/4

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S/120/60/000/006/015/045 E041/E335

Wideband Transistor Preamplifier

if R_6 and R_7 are modified to give a through-current of 1.5 - 2.0 mA. The operation is proof against supply fluctuations of \pm 10%. A.N. Pisarevskiy is thanked for valuable comments. There are 3 figures and 4 references: 1 Soviet and 3 English.

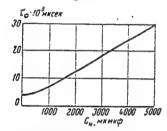


Рис. 3. Зависимость времени нарастания выходного сигнала от величины смкости, присоединенной парадленьно нагрузке 150 ом. Время нарастания сигнала на входе 3,8-10-8 сек

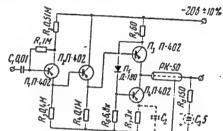


Рис. 1. Схема предусилителя

Card 3/4

S/120/60/000/006/015/045 E041/E335

Wide-band Transistor Preamplifiers

ASSOCIATION:

Institut radiatsionnoy gigiyeny

(Institute of Radiation Hygiene)

SUBMITTED:

November 9, 1959

Card 4/4

S/194/61/000/001/011/038 D216/D304

AUTHORS:

Lebedev. O.V. and Shamov, V.P.

TITLE:

Portable counter using decatron tubes

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 1, 1961, 1, abstract I E3 (Gigiyena i sanitar-iya 3 no. 7, 1960, 63-64)

TEXT: A counter using decatrons has been designed for working with nuclear radiation counters. The memory storage capacity is 10^6 - 1 pulses and the computing speed is 3×10^6 pulses per min. There is an intensimeter and a regulated 0 - 1.6 kV EHT supply for the counters. The total supply power is 35 W and the dimensions are $320 \times 195 \times 135 \text{ mm}^3$.

Card 1/1

PERFILOV, N.A.; IVANOVA, N.S.; LOZHKIN, O.V.; MAKAFOV, M.M.; OSTROUMOV, V.I.; SOLOV: YEVA, Z.I.; SHAMOV, V.P.

Fragmentation of Ag and Br nuclei by 9 Bev. protons. Zhur.eksp.i teor.fiz. 38 no.2:345-350 F 160. (MIRA 14:5)

l. Radiyevyy institut Akademii nauk SSSR.
(Protons) (Nuclear reactions)

\$/056,'60/038,'CO4/011/C48 B019,'B070

24.6600 AUTHORS:

Arifkhanov, U. R., Makarov, M. M., Perfilov, N. A.,

Shamov, V. P.

TTTLE:

Production of Fragments Under the Action of 100-Mev Protons

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,

Vol. 38, No. 4, pp. 1115-1122

TEXT: The authors have investigated the fragment production of the nuclei of a photoemulsion. The emulsion used was of type π -9 (η) (P-9 (ch)), which allowed the observation of the charged products of nuclear fragmentations, and a visual study of the multiply charged particles with $Z \ge 3$, of \nearrow particles, or protons. The experiments were carried out at the synchrocyclotron of the OIYaI (Joint Institute of Nuclear Research). Fig. 1 shows the experimentally observed fragment production cross section as function of the photon energies for heavy and light nuclei. Fig. 2 shows the reduced probability for the departure of fragments from a heavy nucleus as a function of the number of prongs of a star. In the fragmentation of Ag and Br, the following fragments

Card 1/2

Production of Fragments Under the Action of 100-Mev Protons

\$/056/60/03\$/004/011/048 B019/B070

were found: Li (30), Be (14), and B (5). In the fragmentation of C, N, and O the following fragments were found: Li (20), Be (12), and B (5). Fig. 3 shows the energy distribution of the Li and Befragments for heavy and light nuclei; Fig. 4 shows the distribution of the fragments according to their range, and Fig. 5 shows the angular distributions of the fragments. The fragmentation cross section for the heavy nuclei of the emulsion is given to be 1.93 ± 0.64 millibarns and of the light nuclei 1.16 ± 0.36 millibarns. The results of O. V. Lozhkin and N. A. Perfilov (Ref. 6) and M. G. Meshcheryakov (Ref. 14) among others are also mentioned. From the discussion of the results the authors conclude that for the energy range of the incident protons (~100 Mev) investigated here the fragments of secondary nucleons are formed by quasi-elastic scattering on moving nucleon complexes. There are 8 figures, 1 table, and 18 references: 7 Soviet, 8 US, 1 Japanese, 1 French, and 1 German.

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute of the Academy of Sciences, USSR)

SUBMITTED:

November 26, 1959

Card 2/2

21(7)AUTHORS:

Perfilov, N. A.,

Shamov, V. P. Lozhkin, O. V.,

s/053/60/070/01/001/007

B006/B017

TITLE:

The Processes of Fragmentation and Fission in the Interaction Between High-energy Particles and Nuclei

PERIODICAL:

Uspekhi fizicheskikh nauk, 1960, Vol 70, Nr 1, pp 3-56 (USSR)

ABSTRACT:

The present paper gives a detailed survey on the fundamental problems of nuclear fragmentation and fission. From the large number of publications available in this field individual examples are chosen and discussed to illustrate the chapters. In the introduction the cascade evaporation model used for describing nuclear reactions induced by particles with energies ranging from 10^2 to 10^4 MeV is discussed and the conclusions drawn from this model are investigated individually. Part I deals with fragmentation. Fragmentation is any form of nuclear disintegration on which multiply-charged particles with Z > 3are formed. The individual sections of this part deal with 1) fragmentation cross section; a three-page table and a number of well selected diagrams illustrate the effects influenc-

Card 1/3

ing the cross sections. 2) The multiplicity in the fragmenta-

The Processes of Fragmentation and Fission in the Interaction Between High-energy Particles and Nuclei

S/053/60/070/01/001/007 B006/B017

tion process; 3) the nature of the fragments produced, 4) energy distribution of the fragments (Figs 11, 12, 13); 5) angular distribution of the fragments (Fig 14, Table 3); 6) the properties of the residual nuclei; 7) the mechanism of fragmentation (nuclear cascade process, particle evaporation of the excited nucleus, process of asymmetrical nuclear fission, hypotheses on the fragmentation process). Part II deals with the characteristics and the experimental results of nuclear fission at high excitation energies. Section 1: fission cross sections; section 2: angular distribution of the fission fragments, section 3: mass spectra in fission (Figs 19, 20, 21); section 4: fission mechanism and the methods of its determination (investigation of the energy, spectrum and of the number of charged particles - photomethod; analysis of the ranges of the fragments in the case of different primary excitation energies; investigation of the angular correlations of the emitted particles with the fragments; Monte Carlo method). For each of these methods which are individually described the authors give examples (mainly taken from western publications). In the paper

Card 2/3

The Processes of Fragmentation and Fission in the Interaction Between High-energy Particles and Muclei

s/053/60/070/01/001/007 B006/B017

only N. S. Ivanova, V. Sedorov, Ye. Grigor'yev, V. N. Mekhedov, O. V. Lozhkin, and V. I. Ostroumov as well as R. Filov are mentioned among the large number of non-Soviet scientists. There are 25 figures, 9 tables, and 214 references, 74 of which are Soviet.

Card 3/3

PERFILOW, N.; LOZKIN, O.; SZAMOW, W.

Fragmentation processes in interactions of high energy particles and nuclei. Postepy fizyki 12 no.2:115-153 '61.

1. Instytut Radowy Akademii Nauk ZSRR.

S/186/61/003/001/018/020 A051/A129

AUTHORS: Starik, I.Ye., Shamov, V.P., Arslanov, Kh.A., Zharkov, A.P., Murashov, G.M.

TITLE: Scintillation technique of counting natural radio-carbon and its application to the determination of the absolute age

PERIODICAL: Radiokhimiya, v 3, no 1, 1961, 101-113

TEXT: The present article deals with a method developed by the authors for liquid-scintillation counting of natural radio-carbon, intended for determining the absolute age. The following scheme was used for the chemical preparation of the sample:

carbonate samples + HCl CO₂ +NH₄OH (NH₄)₂CO₃ organic samples + O₂

Card 1/8

Scintillation technique of counting ...

S/186/61/003/11/018/020 A051/A129

$$(NH_{4})_{2}^{CO_{3}} + Sr(NO_{3})_{2} \longrightarrow SrCO_{3} \xrightarrow{+ Mg} SrC_{2}$$

$$SrC_{2} + H_{2}O \longrightarrow C_{2}H_{2}$$

$$3C_{2}H_{2} \xrightarrow{Ni(CO)_{2} P(C_{6}H_{5})_{3}}_{25 \text{ atm., } 65^{\circ}C} C_{6}H_{6}$$

$$C_{2}H_{2} + C_{6}H_{6} \xrightarrow{A1, AlCl_{3}, HCl} C_{6}H_{5}^{C_{2}H_{5}}$$

A coincidence scintillation counter was designed for counting C¹⁴, and bearene and ethylbenzene were used as the liquid scintillator solvents, synthesized according to the above-given scheme. Combined with a highly-effective counter these can be used to determine the absolute age up to 37,000 years in the case of ethylbenzene, and 48,000 years in the case of benzene. In selecting a scintillation counting method the authors base their attempts on finding a substance which is easily prepared and does not require large

Card 2/8

S/186/61/003/001/018/020 A051/A129

Scintillation technique of counting ...

amounts of carbon, so that the advantages of both the proportionate and scintillation methods could be combined. Ethylbenzene and benzene chosen by the authors as the carriers of the natural carbon activity are said to render the scintillation method applicable to young samples and in the case of old ones increase the sensitivity of the method. Ethylbenzene is recommended from the following considerations: 1)22.3% from the sample can be introduced into the ethylbenzene molecule; 2) the ethylbenzene molecule itself is an excellent solvent of liquid scintillators, being inferior only to self is an excellent solvent of liquid scintillators, being inferior only to the very best solvents, such as toluene, xylene; 3) its preparation and putification are simple and do not require complex apparatus or reagents iffication are simple and do not require complex apparatus or reagents.

3-15 g, is required. The apparatus used by the authors to count natural classification of the amplifier function at room temperature, the complete amplification of the amplifier is 400. The counting rate of the complete amplification of the amplifier is 400. The counting rate of the counting rate of the background determined by the cosmic and external radiations in the given apparatus. Fig 1 is a block-diagram of the described

Card 3/8

S/186/61/003/001/018/020 A051/A129

Scintillation technique of counting ...

apparatus and Fig 2 shows the principal circuit of coincidences. The tubes of the apparatus are fed by stabilised sources of anode and incandescent voltage, and the photomultipliers by a BC-9(VS-9)-type high-voltage source. The positive pulses from the exits of two non-overloaded amplifiers are fed to the inputs of the diode low-level discriminators (A_2 , A_2 , in Fig 2). The limiting (A_1 , A_2) diodes are used for eliminating the negative pulse outputs fed to the low-level discriminator inputs. The selected photomulticular should satisfy the following requirements: 1) a high sensitivity of plier should satisfy the following requirements: 1) a high sensitivity of plier should satisfy the following requirements: 1) a low noise level, 4) stable photocathode, 2) a high total sensitivity, 3) a low noise level, 4) stability over long periods of service, 5) a good temporary resolving power. Solity over long periods of service, 5) a good temporary resolving power. The adjustment of the counter for the C A_1 spectrum is carried out according to the A_1 -line of Cs A_2 . The discriminators of the lower level are installed so that the number of the noise pulses at the output of the circuit of coincidences would be equal to 0.5-1 pulses/min. The sample is counted in a 15.5 cm of volume cuvette made of optic quartzite. The preparation of ethylbenzene and benzene from the carbon of the investigated material involves the following chemical steps: 1) formation of CO, from the sample, 2) production of strontium carbonate from CO, of the sample, 3) reduction of the

Card 4/8

S/186/61/003/001/018/020 A051/A129

Scintillation technique of counting ...

strontium carbonate to strontium carbide, 4) decomposition of strontium carbide, separation of acetylene from hydrogen and purification of acetylene, 5) synthesis of ethylbenzene from acetylene, 6) purification of ethylbenzene and benzene. The samples to be measured are carbonates or organic substances (coal, wood, peat, etc.). In both cases the carbon of the sample is separated out in the form of CO2. The formation of CO2 from the carbonate samples is performed by the decomposition of the sample with hydrochloric acid. If the investigated sample is an organic material, the formation of CO, is carried out by heating the sample in an oxygen flow. The single synthesis of large amounts of acetylene (up to 30 1) is carried out according to the Suess method (Ref 4), the main advantage of which is said to be the almost quantitative yield of acetylene (95%). The synthesis of ethylbenzene is carried out according to the method of hydroalkylation of benzene with acetylene in the presence of metallic Al, AlCl, and hydrogen chloride (Ref 16). The authors conducted a complete synthesis of benzene from the investigated material according to Reppe's method (Ref 13). The catalyst for the synthesis of benzene by the given method is a compound of a mixed type having both an organic as well as an inorganic nature: Ni(CO)₂/ $\mathbb{P}(C_6H_5)_3\sqrt{2}$.

Card 5/8

L 6860-65 EWT(m)/EPF(c)/EPR/EWP(j)/T/EWP(q)/EWP(b) Pc-4/Pr-4/Pa-4 LJP(c)/AFWL/ESD(t)/RAEM(t) RM/WW/JD S/0272/64/000/006/0160/0161

SOURCE: Ref. zh. Metrologiya i izmeritel'naya tekhnika. Otdel'ny*y vy*pusk, Abs. 6.32.1133

AUTHOR: Gutkevich, S. G.: Lebedev, O. V.; Pisarevskiy, A. N.; Selyaninova, N. S.; Shamov, V. P.

TITLE: New methods for the packing of scintillators 19

CITED SOURCE: Sb. Stsintillyatory* i stsintillyats. materialy*. Khar'kov, Khar'kovsk. un-t, 1963, 236-238

TOPIC TAGS: scintillator, single crystal, stilbene, tolane/OK-50 glue

TRANSLATION: There is described a method of packing of <u>single crystals</u> with the help of <u>glue OK-50</u>. The method ensures transparent, colorless, and very durable gluing of <u>scintillators NaI(Tl)</u>, CsI(Tl), KI(Tl), stilbene, tolane, and plastic crystals with glass, improves their resolving power, and makes it

Card 1/2

L 6860-65
ACCESSION NR: AR4044269

possible to prepare very thin films of scintillators and to use for packing thin-walled containers which cannot be taken apart. The method is recommended for introduction into industrial production.

SUB CODE: OP, SS ENCL: 00

SHAMOV, V. P.; MALYKHIN, I. M.

"Method for Calculation of Absorbed Doses from Bioassay Data in Cases of Chronic Ra-226 Intake."

report presented at the Symp on Assessment of Radioactive Body Burdens in Man, Heidelberg, 11-16 May 64.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548430001-5

L 53897-65

ACCESSION NR: AP5017369

UR/0240/64/000/010/0096/0104

AUTHOR: Shamov, V. P.

TITLE: Concerning the maximum allowable concentration of strontium-90 in food products

SOURCE: Gigiyena i sanitariya, no. 10, 1964, 96-104

TOPIC TAGS: radiobiology, radiostrontium, radioisotope, radiation biologic effect, food sanitation, air pollution

Abstract: The author is a member of the International Commission on Radiation Protection which, at its Stockholm meeting (date not given) proposed revision of the values of the maximum allowable concentrations. in air and food products for such radioactive isotopes as had sufficient data on their biological effects. The present article deals with Sr⁹⁰ and an editorial preface states that it is published for discussion since: its conclusions, insofar as the general population is concerned, must be considered still controversial.

The available data concerning the maximum allowable concentration of Sr ocalculated according to various models representing its accumulation in the human body is summarized and tabulated, with a distinction made

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ENT(m)/ENA(h) L 63802-65 ACCESSION NR: AP5021769 UR/0240/64/000/011/0104/0111 AUTHOR: Shamov. V.P. TITLE: Problem of the maximum permissible concentrations of uranium in water 🔑 and air SOURCE: Gigiyena i sanitariya, no. 11, 1964, 104-111 TOPIC TAGS: air pollution, water pollution, uranium, radioactive contamination, ABSTRACT: In connection with a review of the established values of the maximum permissible concentrations of uranium in water and air, the author presents the views of the International Commission of Radiological Protection in regard to standards that are to be applied with respect to the concentrations of the various isotopes of uranium. He points out that the intention exists of increasing by a factor of 5 the maximum permissible concentration of $V^{230}-V^{236}$ present in the form of insoluble compounds in the air, and by a factor of 10 the maximum permissible concentrations of U238 and of natural U present in the form of insoluble compounds in the air. Card 1/2

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L 10618-66

ACC NR: AP5027300

SOURCE CODE: UR/0241/65/010/010/0010/0014

AUTHOR: Yershov, E. B.; Keran, A. A.; Spirin, V. D.; Shemov, V. B.

ORG: Scientific Research Institute of Redistion Hygiene, Leningrad (Nauchnoissledovatel'skiy institut radiatsionnoy gigieny)

TITLE: Experimental determination of absorbed dose from alpha-emitters in contact media

SOURCE: Mediteinskaya radiologiya, v. 10, no. 10, 1965, 10-14

TOPIC TAGS: radiation dosimetry, slpha particle, medical nuclear application, applied mathematics, methodatic prediction, enatomic medal involvation, radiation liables offer, had began ABSTRACT: Present calculation of absorbed fadiation doses and their distribution in tissues upon internal irradiation by slpha particles does not sufficiently consider the layer between the active and the passive medium, that is, the secretion layer in intestinal irradiation. This work involves study of factors influencing the dose and experimental determination of the absorbed dose according to the depth of the irradiated tissue, either without filter between the contact media or for any filter thickness, by means of an slphs spectrometer and calculation. The model for the active medium was a thick layer of pressed

Card 1/3

UDC: 615.849.7-031

L 10618-66

ACC NR. AP5027300

talc with evenly distributed Pu²³⁹, and that for the passive layer was koloxylin lamellae simulating cellular layers of various thickness. Even distribution of radioactive isotope and irradiation throughout the media was assumed. Based on the spectra obtained and insertion of values into the formula

 $E = \frac{\sum_{i=1}^{E_i \cdot N_i}}{\sum_{i=1}^{N_i}}$

where E_4 is the energy of alpha particles corresponding to the i-channel N₄ the number of alpha particles with E₄ energy, and further calculation in consideration of Ad layer, the formula

 $D\Delta d = \frac{E\Delta d \cdot 1.6 \cdot 10^{-6}}{\Delta d \cdot t \cdot 100} (rad/man).$

was arrived at for the dose absorbed in layer Δd_{\bullet} . It is concluded that this method of simulation permits determination of the distribution of the quantity of dose absorbed according to the depth of the irradiated medium (mucosal cover of the gastrointestinal tract) from the known thickness of the filter layer (secretion layer in the tract). The mean energy of alpha particles leaving the thick emitter is equal to 0.56 of

Card 2/3

L 10618-66

ACC NR: APS027300

the maximal value. Energy liberation beyond the boundary of the source of a thickness equal to the path of alpha particles is 14% of the maximal energy liberation within this layer. In the absence of an absorbing filter the amount of absorbed dose on each cellular layer compared to the mean dose over the whole path is equal to:

$$D_{\rm I} = 2.64 \cdot \vec{D}_{\rm Ra}; \quad D_{\rm II} = 1.26 \cdot \vec{D}_{\rm Ra}; \quad D_{\rm III} = 0.48 \vec{D}_{\rm Ra};$$

 $D_{\rm IV} = 0.1 \cdot \vec{D}_{\rm Rm}$

The indices I, II, III and IV designate the corresponding cellular layers. Orig. art. has: 5 formulas and 4 figures.

SUB CODE: 06 / SUBM DATE: 12Aug64/ ORIG REF: 000/ OTH REF: 003

HW Sord 3/3

EWT(m)/T IJP(c) L 10806-66 SOURCE CODE: UB/0241/65/010/010/0067/0073 ACC NR: AP5027306 AUTHOR: Belle, Yr. S.; Kostikov, Yu. I.; Shamov, V. P.; Shapiro, E. L. ORG: Lenigred Scientific Research Institute of Radiation Hygiene, Ministry of Health, RSFSR Leningradskiy Nauchno-issledovate skiy institut radiatsionnoy gigieny Ministerstva zdravookhraneniya RSFSR) TITLE: Radiometic properties of the large liquid scintillation counter 19.55 BZhSS-1 SOURCE: Meditsinskaya radiologiya, v. 10, no. 10, 1965, 67-73 TOPIC TAGS: scintillation counter, gamma counter, scintillation spectrometer, radiation instrument, radiobiologic instrumentation, experiment animel/BzhSS-lascintillation counter ABSTRACT: The article describes the counter and illustrates it in a figure. Its 4 Tdimension and large measuring volume permits considerable amplification of the criterion of radiometric quality, n2/n background. It is particularly suitable for measuring low gamma radiation in experimental animals up to a large rabbit and other objects of similar size. A procedure for finding the optimal differential registration channel is given. The instrument has spectrometric semi-612.014.482:621.387.4 TDC: Card 1/2

L 10806-66

ACC NR: AP5027306

resolution equal to 39 and 21% for Cs137 and K40 respectively and thus does not allow analysis of complex gamma radiation spectra. Activities of 5.10-11 to 5.10-3 curies can be measured. Isosensitivity of the larger part of the measuring volume is shown to be high and is seen particularly upon moving the source. The configuration of the object hardly influences the measuring results. Increased specimen volume will lead to self-absorption and attenuation of initial gamma irradiation producing a slight drop in the count. This is shown on aqueous phantoms. For those up to 0.5 liter this does not depend on radiation energy and amounts only to a few percent. This counter has been used for radiobiologic and radiation protection studies and has been found highly reliable. Reproducibility was increased 10-20 times compared to radiochemical methods, and the number of measured objects reached 6000 per year. Its use for prevital radioactivity determination in experimental animals afforded studies of isotope metabolism in the organism. Orig. art. bas: 10 figures.

SUB CODE: 06, 07/ SUBM DATE: 05Jan 65/ ORIG REF: 001/ OTH REF: 002

Card 2/2

Card 1/2

L 27580-66 EWT(m) UR/0241/65/010/005/0082/0083 SOURCE CODE: AP6018375 ACC NR: 30 Malykhin, V. M.; Shemov, V. P. AUTHOR: CRG: none TITIE: Method of calculating the irradiation dose and maximum permissible concentration of fresh fission activity in different parts of the gastrointestinal tract SOURCE: Meditsinskaya radiologiya, v. 10, no. 5, 1965, 82-83 TOPIC TAGS: digestive system, radiation dosimetry, beta radiation ABSTRACT: Formulas are presented for calculating the dose loads for different periods of consumption of a ration charged with fragments. The doses are calculated for an initial level of 1 microcurie of total beta-activity (A) for a ration one hour old ... $q_1 = 1(AcA_1; \Omega + 1)$, where Ω is the moment of fission. The results of the calculations combined with the data on the dose loads for other critical organs can be used to standardize the consumption of nutrients and water according to various dose criteria (e.g., 20 ber for 10 days of consumption, 30 ber for 30 days, etc.). The corresponding maximum permissible concentrations in microcuries are obtained by dividing the dose criterion by the dose from 1 / ck = in the initial ration. 616.33/34-001.29-61

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BELLE, Yu.S.; KOSTIKOV, Yu.I.; SHAMOV, V.P.; SHAPIRO, E.L.

Madiometric properties of the large liquid scintillation counter BZhSS-1. Med. rad. 10 no.10:67-73 0 '65.

(MIRA 18:12)

1. Leningradskiy nauchno-issledovatel'skiy institut radiatsionnoy gigiyeny Ministerstva zdravookhraneniya FSFSR. Submitted January 5, 1965.

L 01065-66 EMT(m) DIAAP DM

ACCESSION NR: AP5014543

UR/0089/65/018/005/0519/0520 539.12 39.121.64

AUTHOR: Yershov, E. B.; Karan, A. A.; Shamov, V. P.

TITIE: Concerning the energy distribution of alpha particles emitted from a thick

SOURCE: Atomnaya energiya, v. 18, no. 5, 1965, 519-520

TOPIC TAGS: Alpha emitter, thick source, energy distribution, moderating ability, range energy ratio

ABSTRACT: In view of the difficulty of preparing thin screens to measure the moderating ability of a substance and the range/energy ratio of alpha particles in the investigated substance, the authors consider the possibility of determining the range-energy relation for a thick flat emitter on the basis of an analysis of the form of its alpha-particle spectrum. The spectrum was measured with an alpha chamber and a 100-channel pulse-height analyzer. The pressed working compound (area 5 cm², thickness ~ 2 mm) was placed in a holder and contained uniformly distributed P²³⁹ atoms in a mass of talcum powder. The empirical form of the spectrum was obtained by breaking up the measured spectrum into four energy ranges, with a separate empirical formula obtained for each. By using the fact that talcum has

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ACCESSION NR: AP501454				1. (a) 1. (b) 1. (c) 1.
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L 28021-66 EWT(m)

ACC NR: AP5026456

UR/0089/65/019/004/0401/0403 SOURCE CODE:

Malykhin, V. M.; Moiseyev, A. A.; Shamov, V. P. AUTHOR:

ORG: None

Internal radiation doses in man induced by Sr-90 TITLE:

Atomnaya energiya, v. 19, no. 4, 1965, 401-403

TOPIC TAGS: radiation biologic effect, radiation injury, strontium

ABSTRACT: The retention of strontium-90 in man and the effect of radiation doses on the bone tissue is discussed and calculated. The Sr-90 retention q (in nanocurie) was calculated by using the following formula

 $q(t) = \frac{1}{100} R f_1 f_2' A e^{-\lambda(t-1)} \frac{t^{1-n} - 1}{1-n} =$ $= B R e^{-\lambda(t-1)} (t^{1-n} - 1),$

Here, R - Sr-90 content in man-ration based on 1 pcu/day at the beginning; B-constant; t-time; A and n-parameters of power function; decay constant; $\lambda = 7 \times 10^{-5}$ day -1; absorbed isotope fractions $h = h_2 = 0.3$. The results of calculations are plotted in Fig. 1 showing the power function curve 1 (with A = 0.522, n = 0.175), the power function curve 2

Card 1/2 UDC: 577.391.087

14(5) AUTHO..:

Shamov, Ye. Ye.

SOV/152-59-2-31/32

TIPLE:

Economy and Efficiency in the Use of Derricks of 55 m Height (Ekonomicheskaya effektivnost! primeneniya vyshek vysotoy

53 m)

P.A.I. DICAL:

Izvestiya vyoshikh mchebnykh savedeniy. Neft/ i jaz, 1959, Nr 2, pp 121 - 125 (USUR)

ABSTLACT:

In the present article the question of the economical use of derricks of 55 m height in drilling deep wells by a great number of chiselings is discussed. In order to solve this problem, the following index system is suggested:1)Additional investment made necessary by the use of derricks of 55 m height, instead of 41 m. 2) Reducing construction costs in making wells. 3) Pay-off period for additional invistments. 4) Speeding up drilling operations. After the end of drilling operations on the oilfield of Ozek-Saut (Stavrepol' Sovnarkhoz) comparisons were made of the efficiency of derricks of 41 and 53 m height, respectively (Table 2). The use of

Card 1/3

devricks of 53 m height resulted in a considerable reduction of the time required for lovering and lifting. With the same

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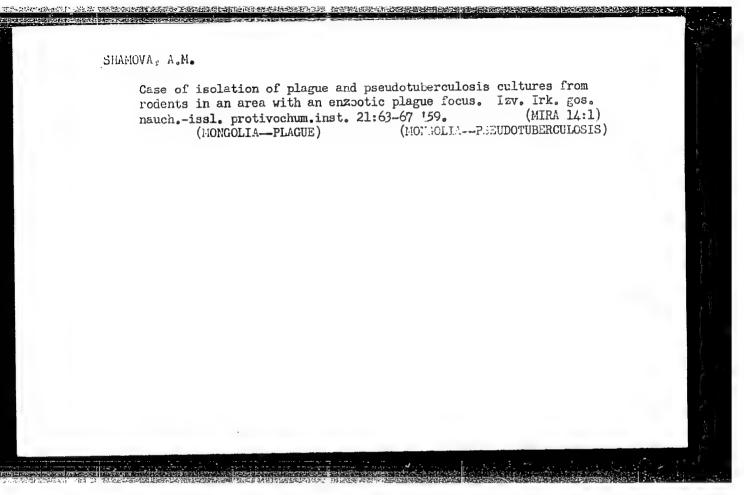
Economy and Efficiency in the Use of Devrichs of 0.000/1.2-0.9-2-31/32 Height

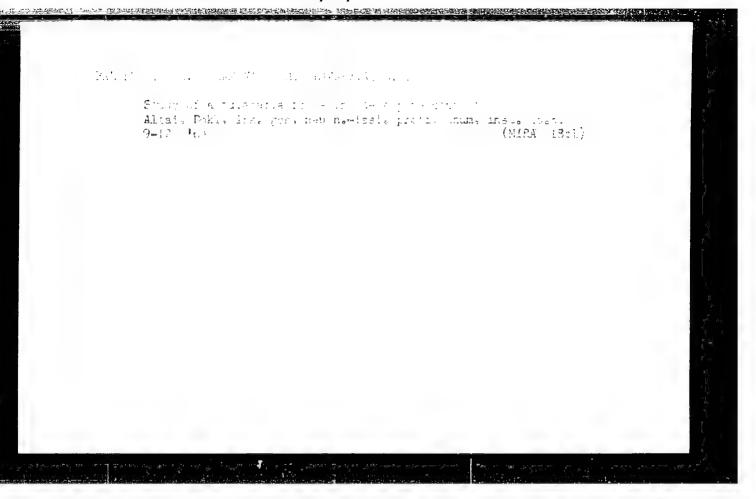
ASS CIATION: Groznenskiy neftyanov institut (Groznyy Petroleum Institute)

SUBMITTED: October 31, 1958

Card 3/3

SOURCE CODE: UR/0016/66/000/010/0094/0097 L 08746-67 ENT(1) JK ACC NR. AP 6034524 AUTHOR: Shamov, Yu. A. Department of Infectious Diseases, Dagestan Medical Institute, Makhachkala (Kafedra infektsionnykh bolezney Dagestanskogo meditsinskogo instituta) TITLE: Typhoid fever among vaccinated persons SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 10, 1966, 94-97 TOPIC TAGS: human wilmout, typhoid fever, vaccine, active immunity, IMMUNOLOGY, INFECTIVE DISEASE ABSTRACT: The onset, course, and number of relapses of typhoid fever in a group of vaccinated and in a group of nonvaccinated patients were studied. The vaccinated group had received either dry alcoholic divaccine or Vi antigen of Acute onset of the disease occurred more frequently in the vaccinated group, but severe forms of the disease were found less frequently than in the nonvaccinated group. Clinical course, mortality rate, and duration of hospital stay were the same for both groups. Relapses occurred more frequently in vaccinated than in nonvaccinated patients. Orig. art. has: 1 table. SUB CODE: 06/ SUBM DATE: 27Jan66/ ORIG REF: 011/ OTH REF: 001 UDC: 616.927-036.1-06:616.927-084.47 Card 1/1 bc





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ARBUZOV. S.Ya.; BAZANOV, V.A.; NEKACHALOV., I.Ya.; PATALOVA, V.N.; PETELINA, V.V.; SHAMOVA, E.K.

Distribution of sulfur mercamine in the organs and tissues of irradiated and non-irradiated animals. Med.rad. no.5%62-66 61. (MIRA 14:11)

1. Iz otdela radiobiologii (zav. - prof. S. Ma. Arbuzov) Instituta eksperimental noy meditsiny ANN SSSR.

(ETHYLAMINE) (RADIATION PROTECTION)

SHAMOVA, G. V.

Shamova, G. V. - "Change in the color of the skin as a means of determining the condition of blood circulation of the extremities in obliterating endarteritis," In the symposium: V. N. Shamov, Kiev, 1949, p. 117-36

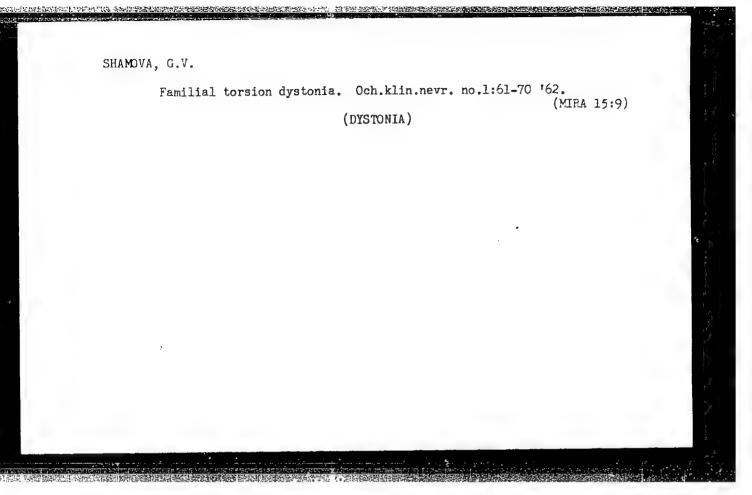
SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

SHAMOVA, G.V.

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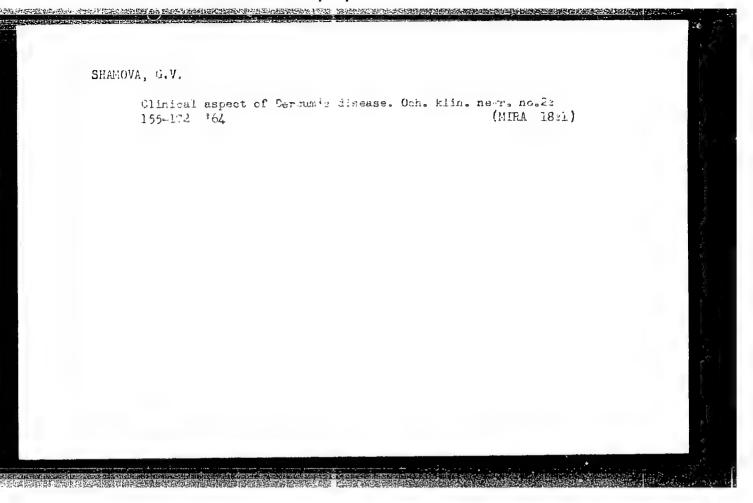
Determination of the state of peripheral circulation in endarteritis obliterans with the method of reactive hyperemia. Vopr. neirokhir. 16 no.1:48-51 Jan-Feb 52. (CLML 21:4)

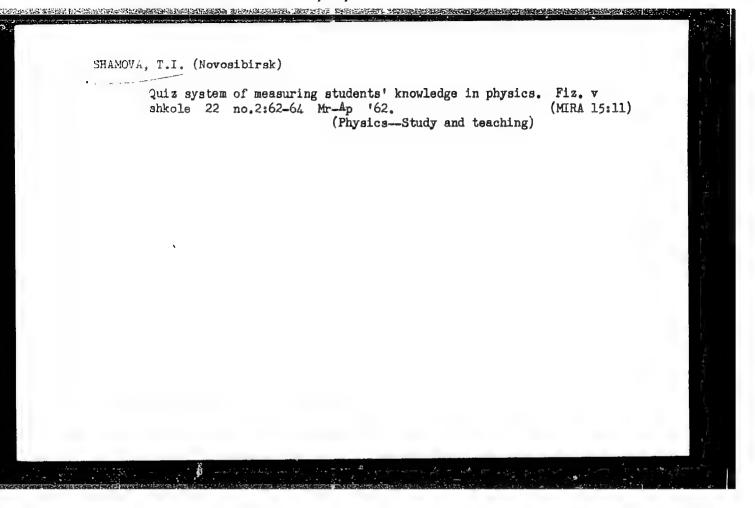
1. Of the First Department of Faculty Surgery imeni S.P. Fedorov, Military Medical Academy imeni S.M. Kirov.



DAVIDENKOV, S.N.; SHAMOVA, C.V.

Spinal insults in discopathies. Och.klin.nevr. no.1:123-130 '62.
(MIMA 15:9)
(SPINAL CORD-DISEASES)
(INTERVETEGRAL DISK-DISEASES)

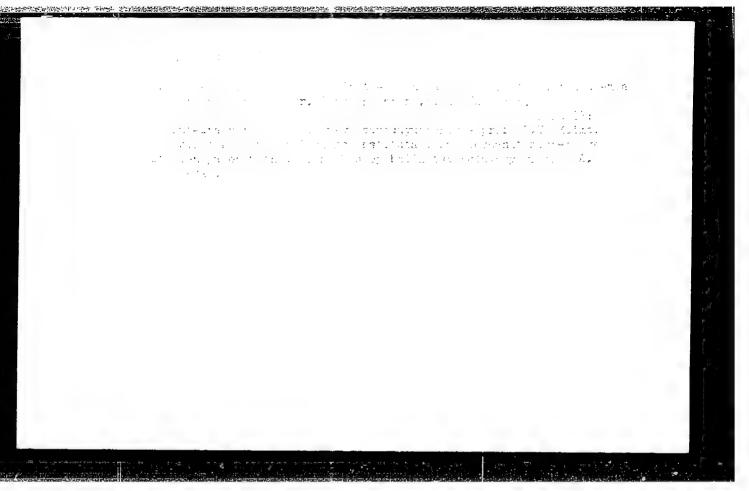




SHAMOVSKAYA, E.Z.

Hemorrhagic encephalitis. Zhur. nevr. i psikh. 60 nol3:280-285 '60. (MIRA 14:5)

1. Kafedra nervnykh bolezney (zav. - prof. D.T.Kuimov) Novosibirskogo meditsinskogo instituta.
(ENCEPHALITIS)



POTAP'ENUSKIY, A.G.; KORTTSKIY, V.A.; Prinimali uchastiye: KIGOEV, V.S.;
IMKARCY, M.E.; VAYYSHEYT:, A.L.; KUELIKUY, M.K.; SHELOVSKAYA, I.V.;
PAMALI, S.M.; FEDSTOWA, L.F.; TATARINOV, G.V.

Ob-458m attachment for welding in CO2 using 18-300, 180-300,
and 18-500 transfermers. Lyton.svar. 15 nc.10:68-70
(MIEA 15:11)

(Electric welding-Equipment and supplies)

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	Agencies: Nauchnyy sovet po magnetizmu AN SSSR, tverdogo tela 1 poluprovodnikov AN BSSR,
1	Editorial Brard: Resp. Ed.: N. N. Sirota, Academician of the Academy of Sciences BGSR: K. P. Below, Professor: Ye. I. Kondor-edity, Professor: K. P. Polivanoy, Professor: N. Telesnin, Professor: Gastor: Q. A. Smolanskiy, Professor: N. N. Sholita, Canidate of Physical and Mathematical Sciences: E. M. Smolyzrenko; and L. A. Beankiroy: Ed. of Publishing House: S. Kholyzvskiy: Tech. Ed.: J. Volokimovich.
1	PURPOSE: This book is intended for physicists, physical chemists, radio electronics engineers, and tecnnical personnel engaged in the production and use of ferromagnetic materials. It may also be used by students in advanced courses in radio electronics, physics, and physical chemistry.
3	COVERAGE: The book contains reports presented at the Third All-Union Conference on Ferrites held in Minas, Balcussian SSR. The reports deal with magnetic transformations, electrical and Estwomagnetic properties of ferrites, studies of the growth of ferrite singles or typeals problems in the cheatcal and paysterions, and the cheatcal and paysterions.
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	178

VASILEVSKAYA, L.S.; SYRKIN, L.N.; SHAMOVSKAYA, M.A.

Methods and apparatuses for the measurement of dynamic magnetostruction parameters. Trudy inst,! Kom., stand.mer i izm. prib no.64:311-320 '62. (MIRA 16:5) (Magnetic measurements—Equipment and supplies)

SHAMOVSKAYA, S.L. (g. Gor'kiy)

Excursion to an acetylen plant. Khim.v shkole 10 no.3:40-42
My-Je '56.

(Acetylene) (Industrial tours)

(Acetylene) (Acetylene)

124-1957-1-354

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 44 (USSR)

Shamovskiy, B. Ya. AUTHOR:

Determination of the Drag Coefficient in the Presence of a Sudden TITLE.

Expansion of Gas (Opredeleniye koeffitsiyenta soprotivleniya pri

vnezapnom rasshirenii gaza)

PERIODICAL: Tr. Novesibir, s. kh. in ta 1955, Nr 9, pp 245-258

In an earlier work, the Author had derived an expression for ABSTRACT.

the drag coefficient of the flow of a compressible fluid through a diaphragm. He now proposes that a similar expression be utilized as the starting point of the derivation of a formula to determine the drag coefficient corresponding to a sudden expansion of a compressible gas. In the expression for the diaphragm the overall drig coefficient \mathcal{L}_{μ} of a diaphragm is given in terms of two components, namely, the drag coefficient attributable to the flow of the gas through an aperture in the diaphragm, Sape drag coefficient attributable to the sudden expansion of the gas. . The Author proposes that the coefficient

be determined from a generalized form of the

Card 1/2

124-1957-1-354

Determination of the Drag Coefficient in the Presence (cont)

Bernoulli equation as written for a compressible gas. Since the value of is known from the A's earlier work and and can be obtained from the Bernoulli equation, the quantity can be determined. Formulas are derived for the determination of the velocity coefficient, the through-flow, and the jet constriction. It is shown that the velocity coefficient for a compressible gas can be assumed to be equal to the velocity coefficient of an incompressible liquid.

I. Ye. Idel'chik

1 Gas--Expansion 2. Coefficient--Determination

Card 2/2

KUNITSYN, N.M., kand.tekhn.nauk; SHAMQVKSKIY, E.Kh., kand.tekhn.nauk;
YAKOVLEV, I.M., inzh.; SOROKO, L.N., inzh.

Designing a broad cutter for the flame cleaning of metal. Izv. vys.
ucheb. zav.; chern. met. no.3:154-160 Mr '58. (MIRA 11:5)

1.Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgicheskiy kombinat. (Metal cleaning) (Metal-cutting tools)

SHAMOVSKIY, R.Kh., kand. tekhn. nauk, dots.; YAKOVLEV, I.M., inzh.; KAFTANOVA, Z.K., inzh.

Splash removal during the flame cleaning of metal. Izv. vys. ucheb. zav.; chern. met. no.4:117-125 Ap \$58. (MIRA 11:6)

1. Sibirskiy metallurgicheskiy institut.
(Metal cleaning) (Gas welding and cutting)

SOV/148-59-2-24/24 Shamovskiy, E.Kh. Candidate of Technical Sciences, Docent 25(1) Increase of the Endurance of Equipment Parts (Povysheniye iznosou-AUTHOR: stoychivosti detaley oborudovaniya) Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, TITLE: 1959, Nr 2, pp 177-180 (USSR) PERIODICAL: A conference on welding engineering was convened in January 1959 by the Kemerovo sovnarkhoz. The Conference was attended by representatives from NTOChM and the Siberian Metallurgical ABSTRACT: Institute. The Conference heard the following reports: M.S.Aleksandrovich on the necessary development of welding engineering; Docent E.Kh. Shamovakiy on achievements in welding engineering in the USSR: G.F. Ryberhkin on "Strengthening of Parts by Welding-on Hard Alloys in Soviet Metallurgical Plants and Outlooks on the Further Development and Introduction of this Method"; V.M. Shalamov on the introduction of automatic welding in small-scale production; A.V. Bystrov on "Experiences of Introducing Automatic Welding-On For Worn-Out Parts in USSR card 1/2

18(5)

SOV/135-59-9-19/23

AUTHOR:

Shamovskiy, E. Kh., Candidate of Technical Sciences

TITLE:

The First Siberian Conference on Welding

PERIODICAL:

Svarochnoye proizvedstvo, 1959, Hr 9, p 45 (USSR)

ADTITE OTE

The first Siberian Conference on Welding was convened in Barnaul by the sovnarkhoz and the Institut elektrosvarki ideni Ye. O. Patona An USSR (Institute for Electric Welling imeni Ye. O. Paton As UkrSSR) from April 22-24, 1959. At this conference the development of welding science and engineering in Siberia was discussed. More than 400 engineering workers of the Altay, Irkutsk, Remerov Brasneyersk, Nevosibirsk, Omsk and Tomsk sovnarkhozes participated, as well as scientific workers of the Institut elektrosvarki i WHILAVIOGEN (Institute for Electric Welding and VHILAVIOGEN). The Conference was opened by the Chairman of Altay sovnarkhoz, Ya. A. Nazarov. J. Ye. Paton discussed welding in the USSR for the period 1959-1965. Candidate of Technical Sciences A. H. Shashkov, Director of VHILAVIOGEN spoke on gas flame treating of metals,

Card 1/2

The First Siberian Conference on Welding

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SOV/135-59-9-19/23

and Candidate of Technical Sciences V. V. Shevernitckiy on welling designs. Gandidate of Technical Sciences D. A. Dudho discussed gas-electric welding and D. M. Rabkin looked at the welding of non-ferrous metals. Candidate of Technical Sciences I. I. Frumin spoke on the durability of welding machine components.

Card 2/2

SHAMOVSKIY, E.Kh.; YAKOVLEV, I.M.

Wide-range coke-oxygen cutter for flame machining and scarfing of cold carbon metal. Izv. vys. ucheb. zav.; chern. met. 4 no.10:165-169 '61. (MIRA 14:11)

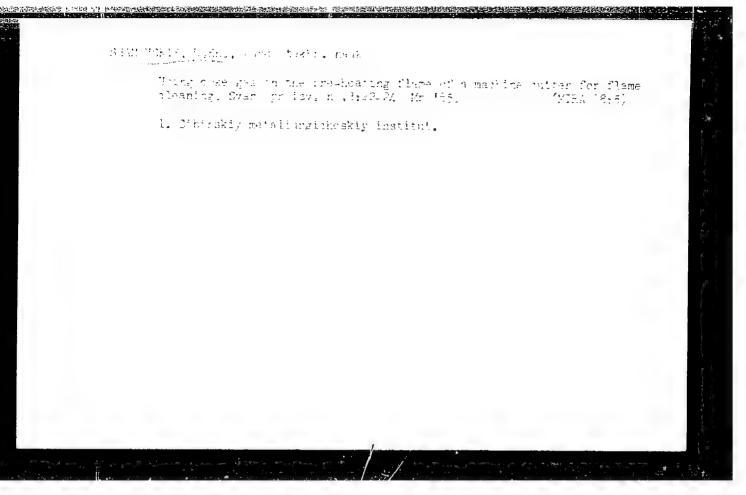
 Sibirskiy metallurgicheskiy institut. (Metal cleaning) (Gas welding and cutting)

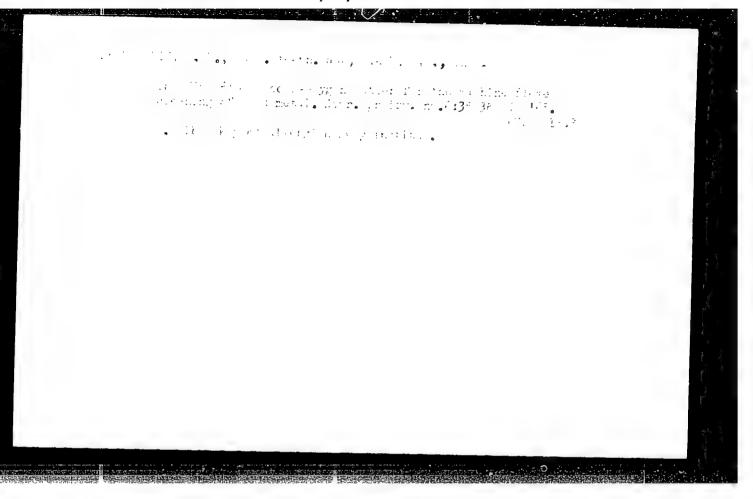
Developing the design of a mechanical oxygen-coke torch for the flame scarfing of cold carbon metal. Izv. vys. ucheb. zav.; chern. met. 5 nc.3:193-199 '62. (MIRA 15:9) 1. Sitirskiy metallurgicheskiy institut. (Gas welding and cutting)

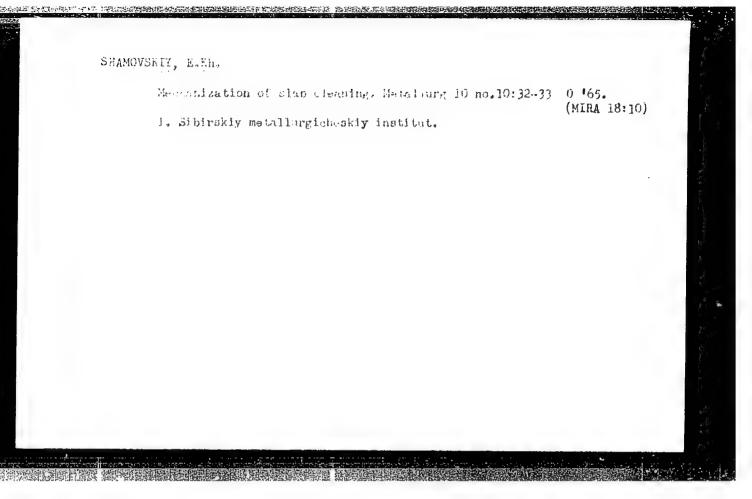
SHAMOVSKIY, E.Kh.; ZYKOV, A.D.; KAFTANOVA, Z.K.; KRAVCHENKO, L.Ye.; FROLOV, N.P.; ZHURAVKIN, Ye.A.; GORBATYUK, V.L.

Mechanizing the flame scarfing of blooms. Metallurg 7 no.8:24-27 Ag 62. (MIRA 15:9)

2. Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgicheskiy kombinat.
(Steel ingots) (Metal cleaning)







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2'loxy percurvas. Submitted barch 15, 1965.

